

# Meson Cryomodule Test Area

## Cryogenic Status

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# Outline

- Cryogenic scope
- System overview and status
- Plans and schedule
- Cost

# Cryogenic Scope

- Design, install, commission and operate cryogenic system to support 2K operation of horizontal test cryostat
- Assumed system features:

Nominal temperature levels

2K, 5K, 80K

Ease of operation

Quick warm-up / cool down

Test plans and schedule

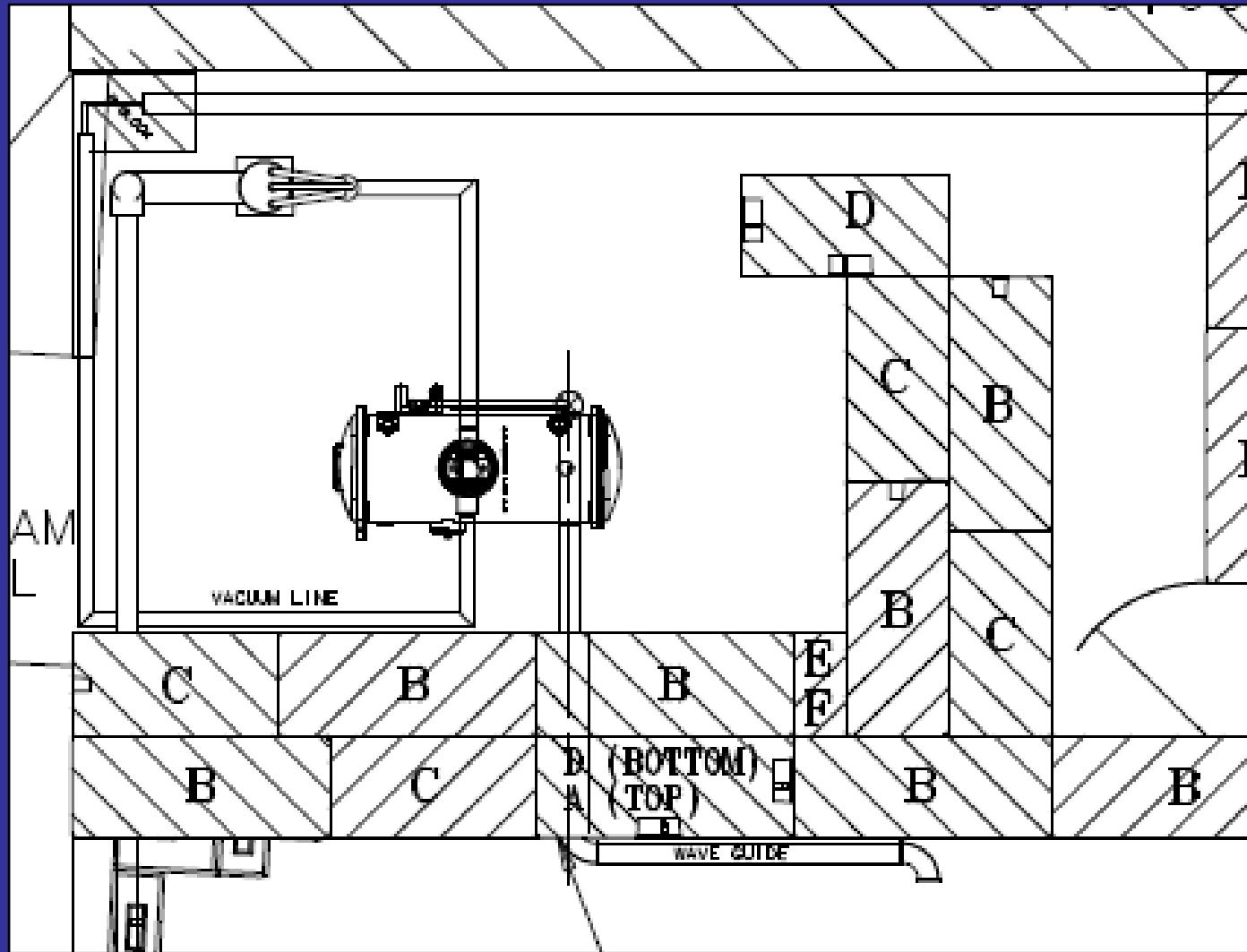
Two tests per month

One MDB test area cold at a time

# MDB Cryogenics



# Cryogenic Scope



# Cryogenic Status

- Cryogenic transfer line ( 50% complete)
- Gas headers ( 50% complete)
- Vacuum pump system ( 40% complete)
- Module cryogenic distribution system ( 20% complete)
- Quick warm-up & cooldown system ( 10% complete)
- Cryogenic controls and instrumentation ( 60% complete)
- ODH system ( 0% complete)

# Plans and Schedule

- Cryogenic transfer line - installation Jan. 06
- Gas headers – installed Dec. 05
- Vacuum pump system – installed Jan. 06
- Module cryogenic distribution system – Jan. 06
- Quick warm-up & cooldown system – April 06
- Cryogenic controls – Feb. 06
- ODH system – Feb. 06

# Cost

- Cryogenic Infrastructure  
(outside project scope)

	Budget	YTD	Balance
– M&S FY06	\$245k	\$51k	\$194k

- Operation ( FY 06 – FY 07)
  - 6 cavities x 1 horizontal tests/cavity (optimistic)
  - 8 cavities x 2 horizontal tests/cavity (pessimistic)
  - Manpower      0.2 - 0.5 FTE
  - M&S            \$28k - \$75k (nitrogen and helium)